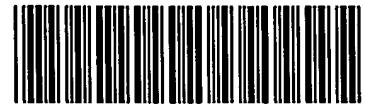


RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/553,124
Source: JFY0
Date Processed by STIC: 08/25/2006

ENTERED



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/553,124

DATE: 08/25/2006

TIME: 11:46:05

Input Set : A:\279689US0XPCT.ST25.txt
 Output Set: N:\CRF4\08252006\J553124.raw

3 <110> APPLICANT: ENDO, NOBORU
 4 YOSHIDA, KOUKI
 5 AKIYOSHI, MIHO
 6 YOSHIDA, YASUKO
 7 OHSUMI, CHIEKO
 8 IGARASHI, DAISUKE
 10 <120> TITLE OF INVENTION: GENE CAPABLE OF IMPARTING SALT STRESS RESISTANCE
 12 <130> FILE REFERENCE: 279689US0XPCT
 14 <140> CURRENT APPLICATION NUMBER: 10/553,124
 15 <141> CURRENT FILING DATE: 2005-10-14
 17 <150> PRIOR APPLICATION NUMBER: PCT/JP04/05403
 18 <151> PRIOR FILING DATE: 2004-04-15
 20 <150> PRIOR APPLICATION NUMBER: JP 2003-113194
 21 <151> PRIOR FILING DATE: 2003-04-17
 23 <150> PRIOR APPLICATION NUMBER: JP 2004-075932
 24 <151> PRIOR FILING DATE: 2004-03-17
 26 <160> NUMBER OF SEQ ID NOS: 17
 28 <170> SOFTWARE: PatentIn version 3.3
 30 <210> SEQ ID NO: 1
 31 <211> LENGTH: 1554
 32 <212> TYPE: DNA
 33 <213> ORGANISM: Seashore Paspalum
 36 <220> FEATURE:
 37 <221> NAME/KEY: CDS
 38 <222> LOCATION: (131)..(1222)
 40 <400> SEQUENCE: 1
 41 ggcacgagga ggcggccgc cgggtgccag acactgccag tgcaacagag cgcggaaaacc 60
 43 acacgcccccc tcgcgcgctc acacagagag agacacacag atcgatcgag cggccggcccg 120
 45 gacggcgcag atg gcg atc ggc ggg gcg gag gcc ggc ggg gga ggc gcg 169
 46 Met Ala Ile Gly Gly Ala Glu Ala Gly Gly Gly Gly Ala
 47 1 5 10
 49 ggg gcc agc ggc cgg agc gtg ctg gtg acg ggc ggc ggc ggg ttc atc 217
 50 Gly Ala Ser Gly Arg Ser Val Leu Val Thr Gly Gly Ala Gly Phe Ile
 51 15 20 25
 53 ggc acg cac acg gcg ctg cgc ctg ctg gag cag ggc tac ggc gtc acc 265
 54 Gly Thr His Thr Ala Leu Arg Leu Leu Glu Gln Gly Tyr Gly Val Thr
 55 30 35 40 45
 57 gtc gtc gac aac ttc cac aac tcc gtc ccc gag ggc ctc gaa cgc gtc 313
 58 Val Val Asp Asn Phe His Asn Ser Val Pro Glu Ala Leu Glu Arg Val
 59 50 55 60
 61 cgc ctc atc gcc ggg ccc gcg ctc tcc gcc cgc ctc gac ttc atc cgg 361
 62 Arg Leu Ile Ala Gly Pro Ala Leu Ser Ala Arg Leu Asp Phe Ile Arg
 63 65 70 75

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/553,124

DATE: 08/25/2006
TIME: 11:46:05

Input Set : A:\279689US0XPCT.ST25.txt
Output Set: N:\CRF4\08252006\J553124.raw

65 ggg gat ctg agg agc gcc ggg gac ttg gag aag gcg ttc gcg gcc agg	409
66 Gly Asp Leu Arg Ser Ala Gly Asp Leu Glu Lys Ala Phe Ala Ala Arg	
67 80 85 90	
69 agg tac gac gcc gtc gtc cac ttc gcg ggg ctc aag gcc gtc ggg gag	457
70 Arg Tyr Asp Ala Val Val His Phe Ala Gly Leu Lys Ala Val Gly Glu	
71 95 100 105	
73 agc gtc gcg cgc ccg gac atg tac tac gag aac aac ctc gcc ggc acc	505
74 Ser Val Ala Arg Pro Asp Met Tyr Tyr Glu Asn Asn Leu Ala Gly Thr	
75 110 115 120 125	
77 atc aac ctc tac aag gcc atg aac gag cac ggc tgc aag aag atg gtg	553
78 Ile Asn Leu Tyr Lys Ala Met Asn Glu His Gly Cys Lys Lys Met Val	
79 130 135 140	
81 ttc tcg tcg tcc gcg acc gtg tac ggc tgg ccg gag gtg atc ccg tgc	601
82 Phe Ser Ser Ala Thr Val Tyr Gly Trp Pro Glu Val Ile Pro Cys	
83 145 150 155	
85 gtc gag gac tcc aag ctg cag gcc aac ccc tac ggc agg acc aag	649
86 Val Glu Asp Ser Lys Leu Gln Ala Ala Asn Pro Tyr Gly Arg Thr Lys	
87 160 165 170	
89 ctc atc stg gag gag ttg gcg ccg gac tac cag cgc gcg gag ccg ggc	597
90 Leu Ile Leu Glu Glu Leu Ala Arg Asp Tyr Gln Arg Ala Asp Pro Gly	
91 175 180 185	
93 tgg agc atc gtc ctg cgc tac ttc aac ccc atc ggc gcc cac agc	745
94 Trp Ser Ile Val Leu Leu Arg Tyr Phe Asn Pro Ile Gly Ala His Ser	
95 190 195 200 205	
97 tcc ggc gag atc ggc gag gac ccc aag ggg gtg ccc aac aac ctg ctg	793
98 Ser Gly Glu Ile Gly Glu Asp Pro Lys Gly Val Pro Asn Asn Leu Leu	
99 210 215 220	
101 ccc tac atc cag cag gtc gcc gtc agg ctc ccc gag ctc aac gtc	841
102 Pro Tyr Ile Gln Gln Val Ala Val Gly Arg Leu Pro Glu Leu Asn Val	
103 225 230 235	
105 tac ggc cac gat tac ccc acc cgt gac ggc acc gcg atc agg gac tac	889
106 Tyr Gly His Asp Tyr Pro Thr Arg Asp Gly Thr Ala Ile Arg Asp Tyr	
107 240 245 250	
109 ata cac gtc gtc gac ctg gcc gac ggg cac atc gcg gcg ctg aac aag	937
110 Ile His Val Val Asp Leu Ala Asp Gly His Ile Ala Ala Leu Asn Lys	
111 255 260 265	
113 ctg ttc gac act cct gat ttc ggt tgt gtg gcc tac aat ctg ggc aca	985
114 Leu Phe Asp Thr Pro Asp Phe Gly Cys Val Ala Tyr Asn Leu Gly Thr	
115 270 275 280 285	
117 ggg cgc ggc aca tcc gtt ctc gag atg gtg gcg gcg ttc aag aag gca	1033
118 Gly Arg Gly Thr Ser Val Leu Glu Met Val Ala Ala Phe Lys Lys Ala	
119 290 295 300	
121 tcc ggc aag gag atc ccc acc aag atg tgc ccc agg aga ccg ggt gac	1081
122 Ser Gly Lys Glu Ile Pro Thr Lys Met Cys Pro Arg Arg Pro Gly Asp	
123 305 310 315	
125 gcg acg gag gtt tac gcg tcc act gag aag gcc gaa agg gag ctc gga	1129
126 Ala Thr Glu Val Tyr Ala Ser Thr Glu Lys Ala Glu Arg Glu Leu Gly	
127 320 325 330	
129 tgg agg gcc cag tat gga atc gag gag atg tgc agg gac cag tgg aac	1177

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/553,124

DATE: 08/25/2006
TIME: 11:46:05

Input Set : A:\279689US0XPCT.ST25.txt
Output Set: N:\CRF4\08252006\J553124.raw

130 Trp Arg Ala Gln Tyr Gly Ile Glu Glu Met Cys Arg Asp Gln Trp Asn
131 335 340 345
133 tgg gcc aag aag aac ccc tat ggc tac tgc ggc act gcc gaa aaa 1222
134 Trp Ala Lys Lys Asn Pro Tyr Gly Tyr Cys Gly Thr Ala Glu Lys
135 350 355 360
137 tagagcgcgt gcattaatca gatctctgga ctgaatttgt ccatgggtga tgggtgtctc 1282
139 agacctatcg gtggaagatg taaacaqtag agaccgctcg aatgtgccta gctacgaaag 1342
141 tttcgttacca tctcttctgt cataacctca tgttagatgtt cattttatttgaatttagcct 1402
143 tagccttcag gcccggcgct gttagccatt gcttgcatac gaggttagtg ggggttggAAC 1462
145 tttgggcgcc cttgaacttc cattatcatc attcgcacag acggcacagt tgcgcagtga 1522
147 gccgttgact gcttggaaa aaaaaaaaaaa aa 1554
150 <210> SEQ ID NO: 2
151 <211> LENGTH: 364
152 <212> TYPE: PRT
153 <213> ORGANISM: Seashore Paspalum
155 <400> SEQUENCE: 2
157 Met Ala Ile Gly Gly Ala Glu Ala Gly Gly Gly Ala Gly Ala Ser
158 1 5 10 15
161 Gly Arg Ser Val Leu Val Thr Gly Gly Ala Gly Phe Ile Gly Thr His
162 20 25 30
165 Thr Ala Leu Arg Leu Leu Glu Gln Gly Tyr Gly Val Thr Val Val Asp
166 35 40 45
169 Asn Phe His Asn Ser Val Pro Glu Ala Leu Glu Arg Val Arg Leu Ile
170 50 55 60
173 Ala Gly Pro Ala Leu Ser Ala Arg Leu Asp Phe Ile Arg Gly Asp Leu
174 65 70 75 80
177 Arg Ser Ala Gly Asp Leu Glu Lys Ala Phe Ala Ala Arg Arg Tyr Asp
178 85 90 95
181 Ala Val Val His Phe Ala Gly Leu Lys Ala Val Gly Glu Ser Val Ala
182 100 105 110
185 Arg Pro Asp Met Tyr Tyr Glu Asn Asn Leu Ala Gly Thr Ile Asn Leu
186 115 120 125
189 Tyr Lys Ala Met Asn Glu His Gly Cys Lys Lys Met Val Phe Ser Ser
190 130 135 140
193 Ser Ala Thr Val Tyr Gly Trp Pro Glu Val Ile Pro Cys Val Glu Asp
194 145 150 155 160
197 Ser Lys Leu Gln Ala Ala Asn Pro Tyr Gly Arg Thr Lys Leu Ile Leu
198 165 170 175
201 Glu Glu Leu Ala Arg Asp Tyr Gln Arg Ala Asp Pro Gly Trp Ser Ile
202 180 185 190
205 Val Leu Leu Arg Tyr Phe Asn Pro Ile Gly Ala His Ser Ser Gly Glu
206 195 200 205
209 Ile Gly Glu Asp Pro Lys Gly Val Pro Asn Asn Leu Leu Pro Tyr Ile
210 210 215 220
213 Gln Gln Val Ala Val Gly Arg Leu Pro Glu Leu Asn Val Tyr Gly His
214 225 230 235 240
217 Asp Tyr Pro Thr Arg Asp Gly Thr Ala Ile Arg Asp Tyr Ile His Val
218 245 250 255
221 Val Asp Leu Ala Asp Gly His Ile Ala Ala Leu Asn Lys Leu Phe Asp

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/553,124

DATE: 08/25/2006
TIME: 11:46:06

Input Set : A:\279689US0XPCT.ST25.txt
Output Set: N:\CRF4\08252006\J553124.raw

222	260	265	270	
225	Thr Pro Asp Phe Gly Cys Val Ala Tyr Asn Leu Gly Thr Gly Arg Gly			
226	275	280	285	
229	Thr Ser Val Leu Glu Met Val Ala Ala Phe Lys Lys Ala Ser Gly Lys			
230	290	295	300	
233	Glu Ile Pro Thr Lys Met Cys Pro Arg Arg Pro Gly Asp Ala Thr Glu			
234	305	310	315	320
237	Val Tyr Ala Ser Thr Glu Lys Ala Glu Arg Glu Leu Gly Trp Arg Ala			
238	325	330	335	
241	Gln Tyr Gly Ile Glu Glu Met Cys Arg Asp Gln Trp Asn Trp Ala Lys			
242	340	345	350	
245	Lys Asn Pro Tyr Gly Tyr Cys Gly Thr Ala Glu Lys			
246	355	360		
249	<210> SEQ ID NO: 3			
250	<211> LENGTH: 23			
251	<212> TYPE: DNA			
252	<213> ORGANISM: Artificial Sequence			
254	<220> FEATURE:			
255	<223> OTHER INFORMATION: Synthetic DNA			
257	<400> SEQUENCE: 3			
258	ggtgacgacga ctcctggagc ccg		23	
261	<210> SEQ ID NO: 4			
262	<211> LENGTH: 24			
263	<212> TYPE: DNA			
264	<213> ORGANISM: Artificial Sequence			
266	<220> FEATURE:			
267	<223> OTHER INFORMATION: Synthetic DNA			
269	<400> SEQUENCE: 4			
270	ttgacaccag accaactggt aatg		24	
273	<210> SEQ ID NO: 5			
274	<211> LENGTH: 339			
275	<212> TYPE: DNA			
276	<213> ORGANISM: Artificial Sequence			
278	<220> FEATURE:			
279	<223> OTHER INFORMATION: Synthetic DNA			
281	<400> SEQUENCE: 5			
282	tgcgtggc tccggcggt tcgccttcca cgagcaccac gagaagaagg aggaccacaa	60		
284	gacgcccggag gaggccggcg gcgagaagaa gcaccacttc ttccgctgat ccatctcacc	120		
286	atctccatct cccaccccca tcgatccatt tgtgttggct ttaattccct gcgtgcattgc	180		
288	gtgttgttga ataaggggcc gttccatct gtacgtacgt gtactccgag acctatcgac	240		
290	atgtgtgtgt gtgtacgtat acctgctgt tacatgatgg tcgttatatgc cactggacta	300		
292	tgttgtgtgt caactctgtt ctgatttgc atatataag	339		
295	<210> SEQ ID NO: 6			
296	<211> LENGTH: 497			
297	<212> TYPE: DNA			
298	<213> ORGANISM: Seashore Paspalum			
300	<400> SEQUENCE: 6			
301	tgcaggggacc agtgaactg ggccaagaag aaccctatg gctactgcgg cactgccgaa	60		
303	aaatagagcg cgtgcattaa tcagatctt ggactgaatt tgtccatgg tcatgggtgt	120		

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/553,124

DATE: 08/25/2006
TIME: 11:46:06

Input Set : A:\279689US0XPCT.ST25.txt
Output Set: N:\CRF4\08252006\J553124.raw

305	ctcagaccta	tcgggtggaaag	atgtacaacaag	tagagaccgc	tcgaatgtgc	ctagctacga	180									
307	agtttcgtac	catctctctt	gtcataacct	catgtagatg	gtcattttat	tggaaatttagc	240									
309	cttagccttc	aggcccggcg	ctgttaaaat	ttgttttaca	catggattt	ctcgctacgt	300									
311	gtgatacata	ttgtgtctgt	aataatccgt	atcggagttt	ccagtaataa	aaccgatcca	360									
313	cgacggtggc	tacgcccctgt	gtttagtac	tgtgaatatg	atgtggtaat	aacaataact	420									
315	tgcagtgaga	cttcagctt	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	480									
317	aaaaaaaaaa	aaaaaaaaaa					497									
320	<210> SEQ ID NO: 7															
321	<211> LENGTH: 396															
322	<212> TYPE: DNA															
323	<213> ORGANISM: Artificial Sequence															
325	<220> FEATURE:															
326	<223> OTHER INFORMATION: Synthetic DNA															
328	<400> SEQUENCE: 7															
329	ggccgctgtg	cagggaccag	tggactggg	ccaagaagaa	cccctatggc	tactgcggca	60									
331	ctgcccggaaa	atagagcgcg	tgcattaatc	agatctctgg	actgaatttg	tccatggttg	120									
333	atgggtgtct	cagacctatac	ggtggaaagat	gtaacaagta	gagaccgctc	aatgtgcct	180									
335	agctacgaag	tttcgtacca	tctctttgt	cataaccta	tgttagatgtt	cattttattg	240									
337	gratttagcct	tagccttcag	gccccggct	gttaaaattt	gttttacaca	tggattttct	300									
339	cgctacgtgt	gatacatatt	gtgtctgtaa	taatcctgat	cgagatttcc	agtaataaaaa	360									
341	ccgatccacg	acggtggcta	cggcctgtgt	tgttagt			396									
344	<210> SEQ ID NO: 8															
345	<211> LENGTH: 1540															
346	<212> TYPE: DNA															
347	<213> ORGANISM: Seashore Paspalum															
350	<220> FEATURE:															
351	<221> NAME/KEY: CDS															
352	<222> LOCATION: (110)..(1183)															
354	<400> SEQUENCE: 8															
355	ggcacgaggg	agagatttag	aggaaatcga	gttcatcctc	cctccaccat	cgccgatcat	60									
357	agccttcctt	tcccccgtcg	ccgatccgt	ccacaagcaa	gcagccagg	atg gtt tct	118									
358						Met Val Ser										
359						1										
361	gcg	gtg	ctt	cgt	acc	atc	166									
362	Ala	Val	Leu	Arg	Thr	Ile	Leu	Val	Thr	Gly	Gly	Tyr	Ile	Gly		
363	5				10			15								
365	agc	cac	acc	gtg	ctg	ctg	ctg	cag	cag	gga	ttc	cgc	gtc	gtc	214	
366	Ser	His	Thr	Val	Leu	Leu	Leu	Gln	Gln	Gly	Phe	Arg	Val	Val		
367	20				25			30			35					
369	gtc	gac	aac	ctc	gac	aac	gcc	tcc	gac	gtc	gcg	ctc	gcc	cgc	262	
370	Val	Asp	Asn	Leu	Asp	Asn	Ala	Ser	Asp	Val	Ala	Leu	Ala	Arg	Val	Ala
371					40			45			50					
373	cag	ctc	gca	gca	agc	agc	aac	ggc	ggc	gcc	aac	ctc	gtc	ttc	310	
374	Gln	Leu	Ala	Ala	Ser	Ser	Asn	Gly	Gly	Ala	Ala	Asn	Leu	Phe	His	
375					55			60			65					
377	aag	gtt	gac	ctt	cgc	gac	agg	cac	gcg	ctg	gag	gac	atc	ttc	358	
378	Lys	Val	Asp	Leu	Arg	Asp	Arg	His	Ala	Leu	Glu	Asp	Ile	Phe	Ser	Ser
379					70			75			80					
381	cac	agg	ttt	gag	gct	gtg	att	cat	ttt	gct	ggg	ctc	aaa	gct	gtt	406

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/553,124

DATE: 08/25/2006

TIME: 11:46:07

Input Set : A:\279689US0XPCT.ST25.txt

Output Set: N:\CRF4\08252006\J553124.raw